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Amendment No. 8
Contract No. PR-8200

25 JAN 1963

The Perkin-Elmer Corporation
Main Avenue
Nowalk, Connecticut

Gentlemen:

1. This document constitutes Amendment No. 8 to Contract No. PR-8200 between The Perkin-Elmer Corporation and the United States Government.

2. Pursuant to the clause of this contract entitled "CHANGES" and mutual agreement between the parties hereto, the contract is hereby amended as follows:

(a) The scope of work required by this Contract and set forth in EXHIBIT "A" to the basic contract as amended by Amendment Nos. 1, 2, and 4, is revised in accordance with EXHIBIT "A" (Revision No. 1) attached hereto.

(b) Paragraphs a., b., and c. in PART III - ESTIMATED COST AND FIXED- FEE, of the Contract schedule as amended by Amendments Nos. 4 and 7 are deleted and the following paragraphs are substituted therefor:

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"PART III - ESTIMATED COST AND FIXED-FEE

a. The estimated cost of the performance of this contract, exclusive of the fixed-fee, [redacted]

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b. The fixed-fee for performance of this contract is [redacted]

25X1A

c. Notwithstanding the foregoing and in accordance with the provisions of Clause 34, LIMITATION OF GOVERNMENT'S OBLIGATION, in the General Provisions of this contract, there has been allotted to this contract the sum of [redacted] mance hereunder through 30 June 1963.

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3. All other terms, conditions and requirements of Contract No. PR-8200, as amended, remain unchanged.

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4. Please indicate your receipt of this Amendment No. 8 to Contract No. PR-8200 and your acceptance thereof by executing the original and two copies of this Amendment. Return the fully executed original and one copy of this Amendment to the undersigned and retain the remaining copy for your files.

Very truly yours,

25X1A [redacted]

Contracting Officer

ACKNOWLEDGED AND ACCEPTED
THE P[redacted]

BY [redacted]

TITLE [redacted]

STATINTL

DATE 5 February 1963

PR-8200

EXHIBIT "A"
(Revision No. 1)

STATEMENT OF WORK

1. Study and Preliminary Design

1.1 A Study program will be performed as a continuation of the objectives designated under prior Contract No. OM-5400 and as outlined in Document No. 68 dated October 20, 1959. Primary objective of this program will be extensive study and evaluation of all feasible systems in an effort to determine the optimum system. Acceptance of the Contractor's recommendation of the optimum system will constitute approval to proceed in the final design of the system configuration.

1.2 Final design effort will proceed pending this approval. If written approval or disapproval is not received within fifteen (15) days after submission, approval will be considered as granted.

1.3 The effort described in paragraph 1.1 above has been completed with the submission of Section 1. of Document No. 119 and the Contractor's recommendation of the "T" system.

1.4 Delivery - March 4, 1960

2. Final Design

2.1 Design layout drawings and such additional information as required to describe the prototype system will be prepared in accordance with the objectives approved under Item 1, in sufficient detail to indicate the overall configuration of the system, and the critical dimensions for mounting and operation. These design drawings and additional

information will be submitted to the Customer for approval not later than the date indicated in Paragraph 2-3.

2.2 Detailing and release of detail parts for manufacture can proceed prior to this approval. If written approval or disapproval is not received within fifteen (15) days after submission, approval will be considered granted.

2.3 Delivery - October 15, 1960

3. One (1) Type I-A System

3.1 A type IA system will be fabricated in accordance with the design approved under Item 2 incorporating changes deemed necessary or desirable by the contractor and to meet the objective of early flight test availability in the vehicle, it is acknowledged that this system may not meet all the design and performance objectives outlined in Section 1 of Document 119.

3.2 Delivery of the type I A System to the test site will be made by 15 October 1962. Purpose of the delivery will be test for customer acceptance of the system.

4. One (1) Type IB System

4.1 One additional unit of the type IA system will be fabricated for the same purpose as outlined in paragraph 3.1 above and it is acknowledged that this system may not meet all the design and performance objectives outlined in Section 1 of Document 119. Design changes permitted on the type IB System are limited to non-pacing items, ie. design changes which would not increase the time needed to make Item 4 available for flight test in the vehicle. Any design changes not within this frame-

work will require specific customer approval.

4.2 Delivery of the type IB System to the test site will be made by 31 March, 1963. Purpose of the delivery will be for customer acceptance of the system.

5. One (1) Type IC System

5.1 A type IC System will be fabricated in accordance with the design approved under Item 2 incorporating changes deemed necessary or desirable by the Contractor. The objective of type IC is to reduce both anticipated design and performance limitations and those determined during acceptance testing of type IA and/or type IB and to achieve the design and performance objectives outlined in Section 1 of Document 119. Procurement of items not likely to be redesigned as a result of acceptance testing is authorized.

5.2 Delivery of the type IC System to the test site will be negotiated within 60 days after completion of acceptance testing on item 3 or 4. Purpose of the delivery will be for customer acceptance of the system.

6. Three (3) additional type IC Systems

6.1 Work on three (3) of the Additional systems provided for in paragraph 4. of EXHIBIT "A" to the contract shall discontinue effective 11 June 1962. Types 1A, 1B and 1C, above, are the only systems to be completed and delivered under this contract as herein amended.

7. Acceptance Tests

7.1 Acceptance by the Customer of each system will be contingent upon successful tests of the system in the vehicle. Acceptance tests will be conducted by the Contractor in accordance with Customer-approved,

Test Procedure furnished by letter report JH-M-543 dated 16 Apr 1963. Filed in T+P Section

Contractor-furnished acceptance test procedures. Test plans will be submitted to the Customer for final approval thirty (30) days prior to the delivery of the Type IA. These acceptance tests are to be made in conjunction with and utilizing facilities provided by the Customer. Initiation of and successful completion of acceptance tests will be contingent upon the availability of all customer-furnished equipment or facilities necessary to evaluate the system for the performance characteristics as outlined in Section 1 of Document No. 119 above.

7.2 Completion of Acceptance Tests for the Type IA, Type IB and Type IC system (Items 3, 4 and 5) should be no later than six (6) months after delivery of each system provided that all customer furnished equipment and facilities required have been continuously available to permit an average acceptance test rate of three (3) tests per week. Written final acceptance of the Type IA, Type IB, and Type IC will be furnished by the Customer within seven (7) days after satisfactory Acceptance Tests have been completed.

7.3 In the event the facilities as stated in paragraph 7.2 above are not available negotiations for a contract amendment will be considered.

8. Field Test Equipment

8.1 Field Support Equipment will be fabricated or purchased suitable for test and service of system operation in conjunction with acceptance tests at a single field location. The types of equipment to be provided are listed on Attachment "B".

8.2 Field Support Equipment will be delivered with the Type IA System, Item 3.

9. Spare Parts for Support of Acceptance Tests

9.1 Spare parts will be provided sufficient to support each system in the field for the duration of its Acceptance Test program as described in Item 7 above.

10. Instruction Manuals

10.1 The Contractor shall provide labor, materials, supplies and services necessary to prepare the following manuals:

1. Alignment procedures for each system and all subsystems
2. Handling procedures for each system and all subsystems
3. Operating procedures for the system
4. Maintenance procedures for each system and all subsystems including:
    a. Preventive maintenance and inspection
    b. Testing
    c. Trouble shooting
    d. Corrective maintenance
    e. Removal and replacement
5. Description and principles of operation on major subsystems (black Box) level. These categories will be covered for the entire system and all subsystems, including ground support equipment, special tools and equipment.

    All differences between the three systems will be documentated as required. These will include design changes as well as those determined in the field.

10.2 Manuals described above will be similar to those supplied under contract #HF-20-80. It shall present a general understanding of the overall system and its function. Half-tone line drawings and other necessary illustrations shall be included.

10.3 Individual Instruction Manuals shall be loose leaf manuals similar to those supplied under contract #HF-20-80. Each manual shall present sufficient instructions to permit plant or field trained personnel to perform general and special maintenance of the equipment in the field.

10.4 Delivery of the first preliminary Instruction Manuals shall be made at the time of shipment of the first prototype from the contractor's plant to the customer's test site.

10.5 Delivery of subsequent manuals will be made at time of shipment of the respective system types.

10.6 One set of blueprints of the drawings used by the contractor in the manufacture of the systems will be furnished on request at any time after delivery of the last system.

11. The changes and additions in the contract work stated in Contractor's letter JF-M-230, dated 3 April 1961, and comprising the following shall be included in the performance of the contract work:

11.1 Changes, redesign and mock-up rework resulting from vehicle motion.

11.2 Engineering incident to contemplated computer for nonstraight courses.

11.3 Furnishing of two (2) each Century 409X recorders.

11.4 Additions to the vacuum furnace to provide a complete mission thermal and pressure profile.

12. The changes and additions in the contract work stated in the Contractor's letter JF-M-323, dated 19 October 1961, and comprising the following, shall be included in the performance of the contract work. Said letter is incorporated into and made a part of this contract by reference:

12.1 Effective 1 July 1962 all Contractor Personnel comprising the flight test group at [redacted] and all travel and field adjustments relating thereto will not be furnished under this contract, but shall be provided by the Contractor under a separate contract for services of Contractor's Personnel to be drawn for this purpose. 25X1

12.2 The Contractor shall perform maintenance, repairs and overhauls of equipment provided the Government under this contract through 30 June 1963. This item covers only the work at the Contractor's plant.

13. The changes and additions in the contract work stated in Contractor's letter JH-M-432 dated 3 August 1962 and comprising the following shall be included in the performance of the contract work:

13.1 1 - Modification of the C-123 Gimbal to isolate it from the aircraft vibrations

13.2 2 - Fabrication of five windows for use in an interim test vehicle

13.3 3 - Addition of three data outputs for the proposed flight recorder as follows:

[redacted] 25X1D

d) Connections for above items through Q Bay

13.4 Data outputs per paragraph 13.3 are to be included in Items 3, 4 and 5 above

14. The changes and additions in the contract work stated in contractor's letter JH-M-430 dated 13 August 1962 and comprising the following shall be included in the performance of the contract work:

14.1 Modification to the [redacted] as described in contractor's letter JH-M-430 dated 13 August 1962 are chargeable to this contract to a maximum limit of [redacted] 25X1 25X1

15. [redacted] 25X1

ATTACHMENT "B"

FIELD SUPPORT EQUIPMENT

Collimator with six (6) large flats to permit observation of oblique positions.

Tools, meters, etc.

Elec.-mech. check-out consoles:

Configuration

Window

Hatch

Pilot control

Film viewing table and microscope

Film rewinds

Dollies, Lifts, Hoists, Stands

Desiccation Equipment

Power Cart

Cabinets, Benches, Vacum Cleaner, Office Equipment

Special Clothing

Flight Test Instrumentation

Photographic Equipment and Supplies

Optical Test Apparatus

Strength Tester

Vacuum Tester

Cycle Tester